

1.1. Créations des machines virtuelles

Virtual machine name and operating system

VM Name (DEB13Server) ✓

VM Folder D:\TP SIO\BOUCLY\TP 1\DELAGRAVE-THEME4-LAB

ISO Image <non sélectionné> ✓

OS Edition

OS Linux x64

OS Distribution Debian

OS Version Debian (64-bit)

☐ Proceed with Unattended Installation

> Set up unattended guest OS installation

> Specify virtual hardware

> Specify virtual hard disk

OK Annuler Aide

New Virtual Machine

> Virtual machine name and operating system

> Set up unattended guest OS installation

> Specify virtual hardware

Base Memory 2048 MB

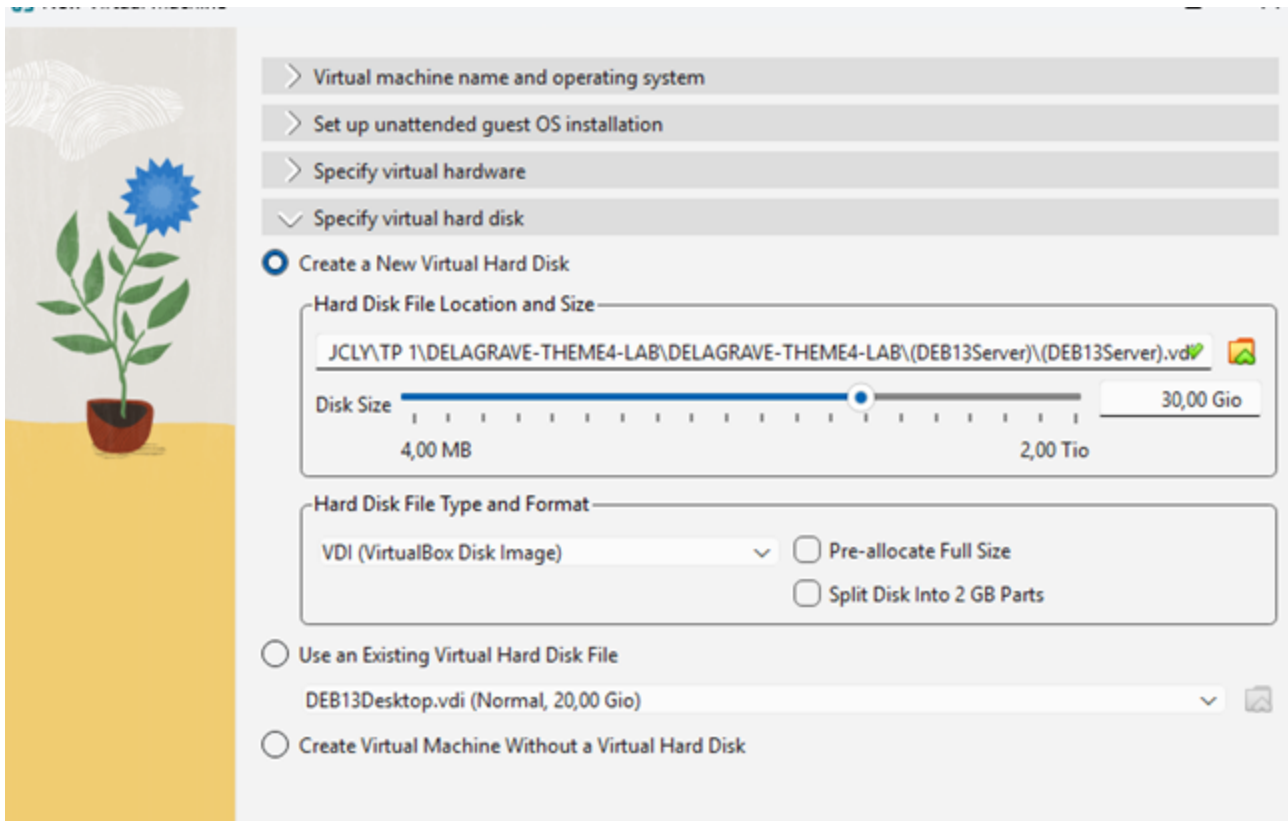
4 Mo 32768 Mo

Number of CPUs 2

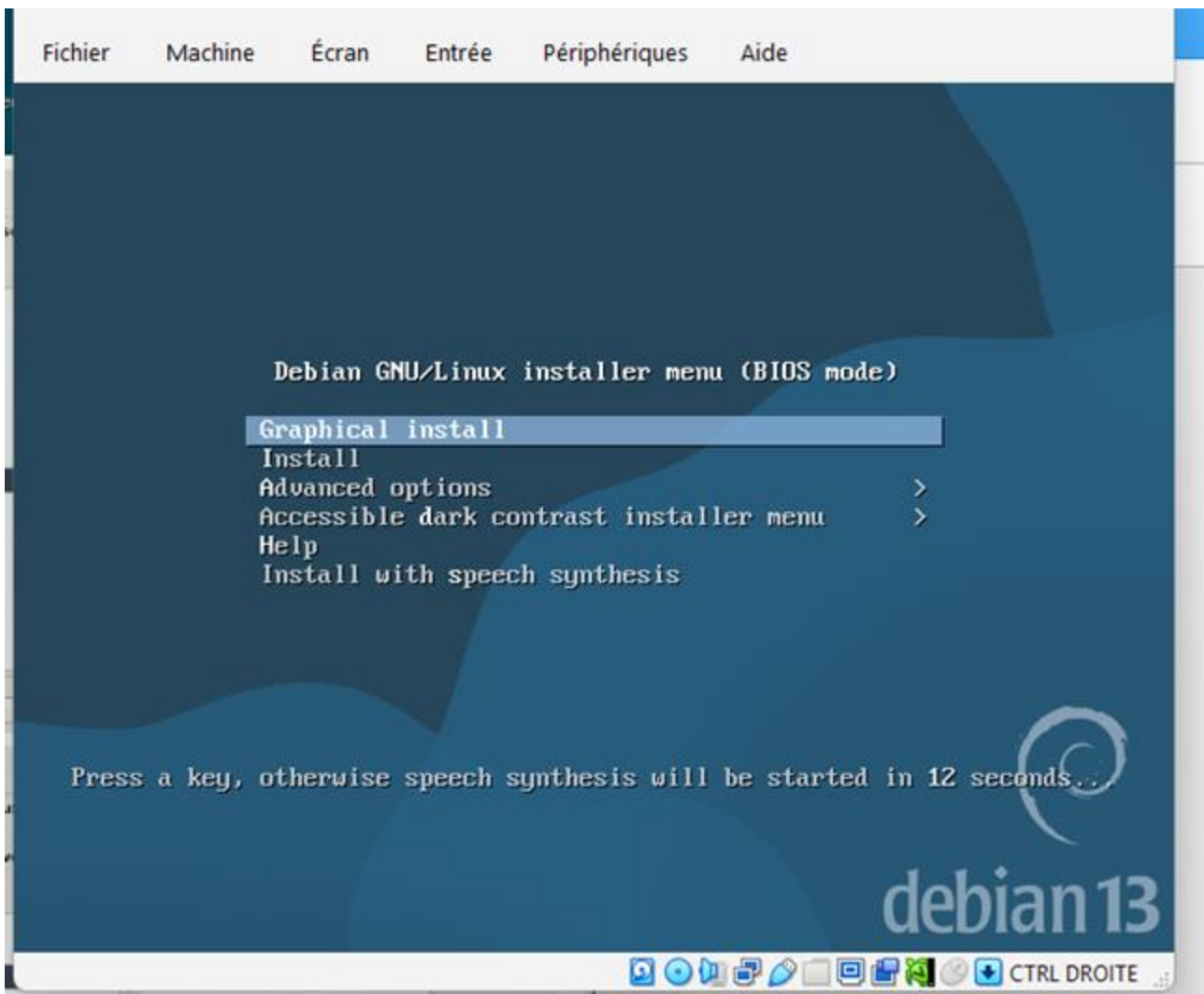
CPU 1 CPUs 16

☐ Use EFI

> Specify virtual hard disk



1.3. Installation de l'OS sur le poste de travail



1.4. La commande apt-get update



1.5. Installation des additions invitées

```

Fichiers  < >  VBox_GAs_7.2.2  sio@DEB13Desktop: ~
+ sio@DEB13Desktop: ~
Paramétrage de libc6-dev:amd64 (2.41-12) ...
Paramétrage de libgcc-14-dev:amd64 (14.2.0-19) ...
Paramétrage de libstdc++-14-dev:amd64 (14.2.0-19) ...
Paramétrage de binutils-x86-64-linux-gnu (2.44-3) ...
Paramétrage de binutils (2.44-3) ...
Paramétrage de dpkg-dev (1.22.21) ...
Paramétrage de dkms (3.2.0-1) ...
Created symlink '/etc/systemd/system/multi-user.target.wants/dkms.service' → '/usr/lib/systemd/system/dkms.service'.
Paramétrage de gcc-14-x86-64-linux-gnu (14.2.0-19) ...
Paramétrage de gcc-x86-64-linux-gnu (4:14.2.0-1) ...
Paramétrage de gcc-14 (14.2.0-19) ...
Paramétrage de linux-headers-6.12.48+deb13-amd64 (6.12.48-1) ...
Paramétrage de g++-14-x86-64-linux-gnu (14.2.0-19) ...
Paramétrage de g++-x86-64-linux-gnu (4:14.2.0-1) ...
Paramétrage de g++-14 (14.2.0-19) ...
Paramétrage de gcc (4:14.2.0-1) ...
Paramétrage de g++ (4:14.2.0-1) ...
update-alternatives: utilisation de « /usr/bin/g++ » pour fournir « /usr/bin/c++ » (c++) en mode automatique
Paramétrage de build-essential (12.12) ...
Traitement des actions différées (« triggers ») pour man-db (2.13.1-1) ...
Traitement des actions différées (« triggers ») pour libc-bin (2.41-12) ...
root@DEB13Desktop:~#

```

```

+ sio@DEB13Desktop: ~
Paramétrage de build-essential (12.12) ...
Traitement des actions différées (« triggers ») pour man-db (2.13.1-1) ...
Traitement des actions différées (« triggers ») pour libc-bin (2.41-12) ...
root@DEB13Desktop:~# cd /media/cdrom0
root@DEB13Desktop:/media/cdrom0# ls -l
total 41939
-r--r--r-- 1 root root    1049 11 août  20:04 AUTORUN.INF
-r-xr-xr-x 1 root root    7114 10 sept. 18:44 autorun.sh
dr-xr-xr-x 2 root root    1468 10 sept. 19:10 cert
dr-xr-xr-x 2 root root    1252 10 sept. 19:10 NT3x
dr-xr-xr-x 2 root root    2828 10 sept. 19:10 OS2
-r-xr-xr-x 1 root root    5097 10 sept. 18:44 runasroot.sh
-r--r--r-- 1 root root     718 10 sept. 19:10 TRANS.TBL
-r--r--r-- 1 root root 2203483 10 sept. 18:57 VBoxDarwinAdditions.pkg
-r-xr-xr-x 1 root root    4225 10 sept. 18:57 VBoxDarwinAdditionsUninstall.tool
-r-xr-xr-x 1 root root 2908188 10 sept. 18:48 VBoxLinuxAdditions-arm64.run
-r-xr-xr-x 1 root root 6656007 10 sept. 18:45 VBoxLinuxAdditions.run
-r--r--r-- 1 root root 9558528 10 sept. 18:46 VBoxSolarisAdditions.pkg
-r-xr-xr-x 1 root root 8709416 10 sept. 19:09 VBoxWindowsAdditions-amd64.exe
-r-xr-xr-x 1 root root 5050640 10 sept. 19:08 VBoxWindowsAdditions-arm64.exe
-r-xr-xr-x 1 root root 1073880 10 sept. 18:46 VBoxWindowsAdditions.exe
-r-xr-xr-x 1 root root 6757304 10 sept. 19:08 VBoxWindowsAdditions-x86.exe
-r--r--r-- 1 root root     261 10 mars  2023 windows11-bypass.reg
root@DEB13Desktop:/media/cdrom0#

```

```

sio@DEB13Desktop: ~
root@DEB13Desktop:/media/cdrom0# sh VBoxLinuxAddition.run
sh: 0: cannot open VBoxLinuxAddition.run: No such file
root@DEB13Desktop:/media/cdrom0# sh VBoxLinuxAdditions.run
Verifying archive integrity... 100% MD5 checksums are OK. All good.
Uncompressing VirtualBox 7.2.2 Guest Additions for Linux 100%
VirtualBox Guest Additions installer
VirtualBox Guest Additions: Starting.
VirtualBox Guest Additions: Setting up modules
VirtualBox Guest Additions: Building the VirtualBox Guest Additions kernel
modules. This may take a while.
VirtualBox Guest Additions: To build modules for other installed kernels, run
VirtualBox Guest Additions: /sbin/rcvboxadd quicksetup <version>
VirtualBox Guest Additions: or
VirtualBox Guest Additions: /sbin/rcvboxadd quicksetup all
VirtualBox Guest Additions: Building the modules for kernel 6.12.48+deb13-amd64.
update-initramfs: Generating /boot/initrd.img-6.12.48+deb13-amd64
VirtualBox Guest Additions: Running kernel modules will not be replaced until
the system is restarted or 'rcvboxadd reload' triggered
VirtualBox Guest Additions: reloading kernel modules and services
VirtualBox Guest Additions: kernel modules and services 7.2.2 r170484 reloaded
VirtualBox Guest Additions: NOTE: you may still consider to re-login if some
user session specific services (Shared Clipboard, Drag and Drop, Seamless or
Guest Screen Resize) were not restarted automatically
root@DEB13Desktop:/media/cdrom0#

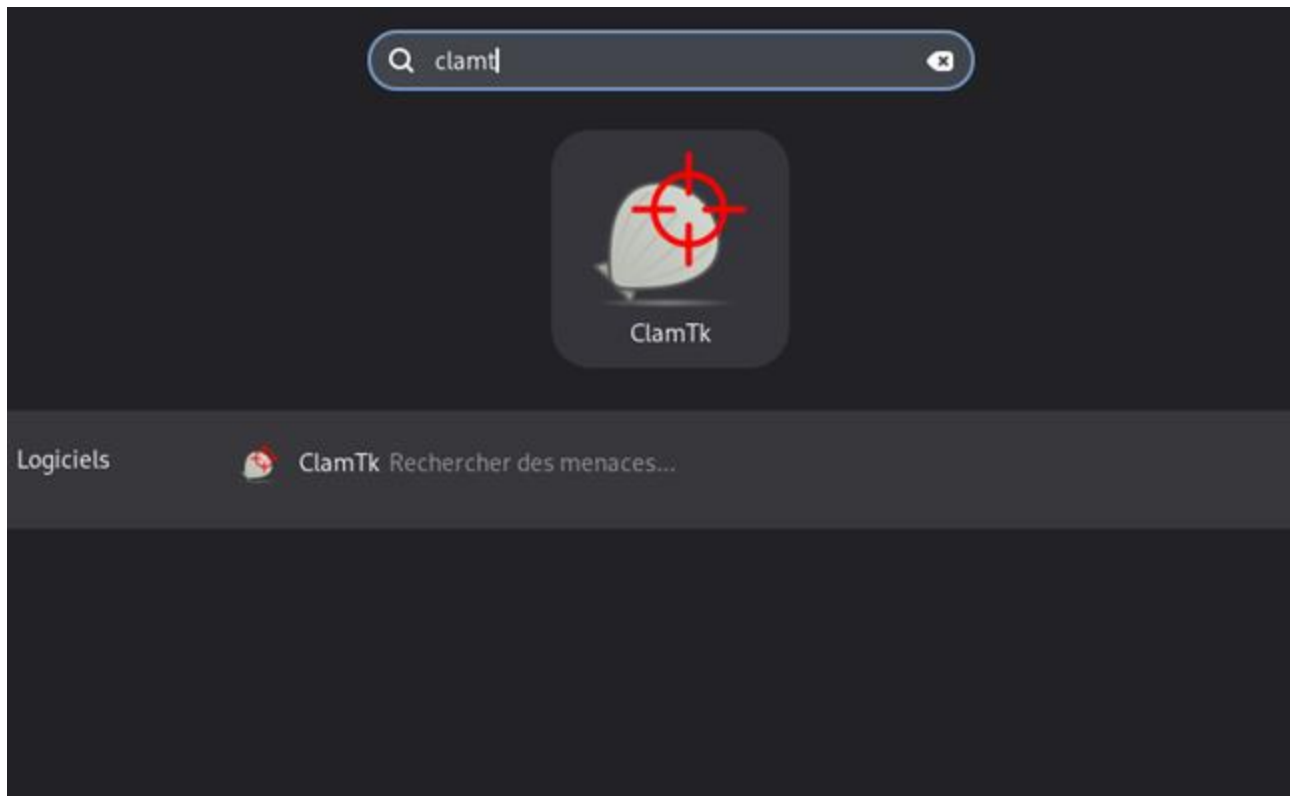
```

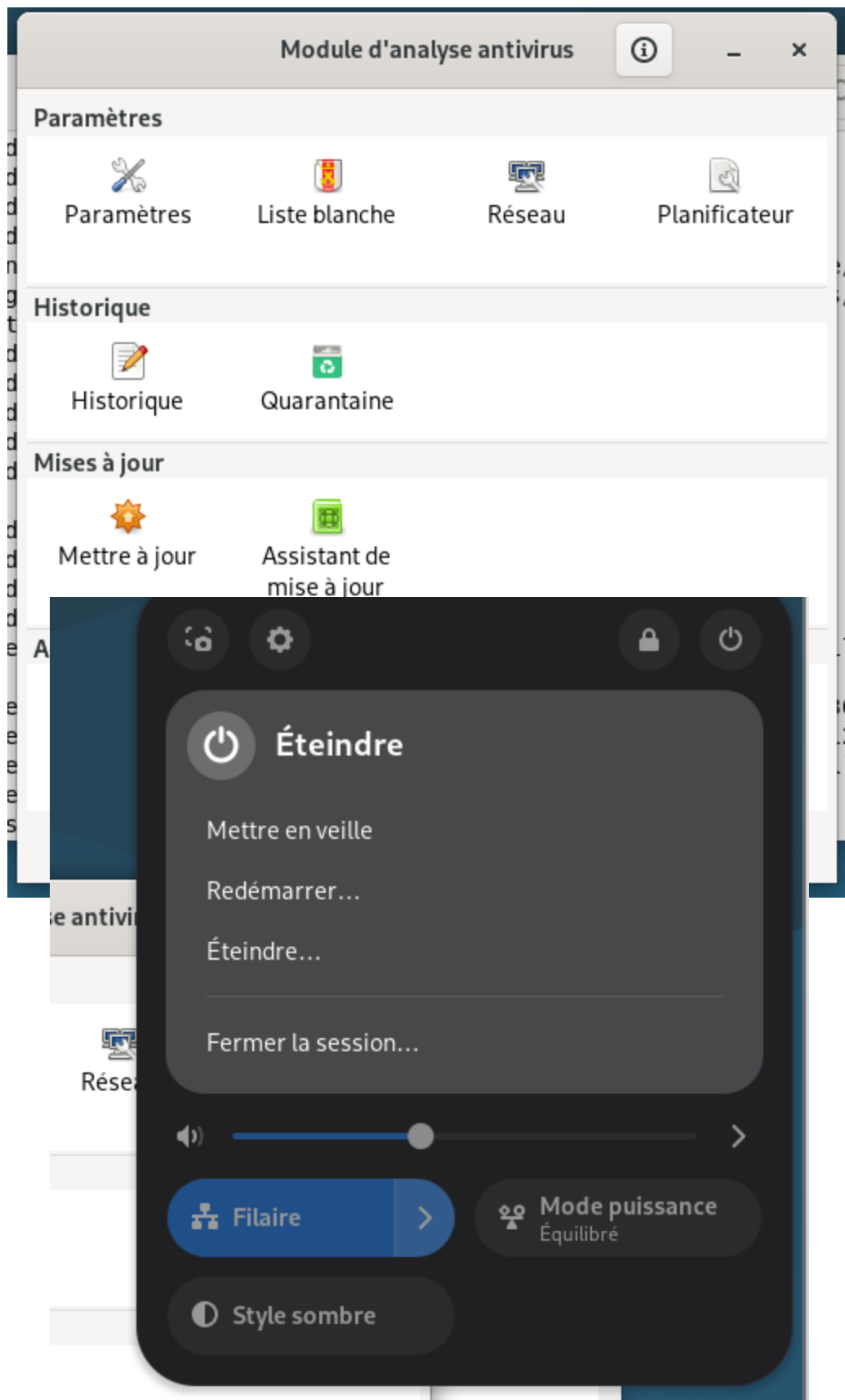
1.6. Installation d'un antivirus.

```

sio@DEB13Desktop: ~
Dépaquetage de libtext-csv-xs-perl:amd64 (1.60-1) ...
Paramétrage de libcommon-sense-perl:amd64 (3.75-3+b5) ...
Paramétrage de libtext-csv-xs-perl:amd64 (1.60-1) ...
Paramétrage de gnome-icon-theme (3.12.0-6) ...
update-alternatives: utilisation de « /usr/share/icons/gnome/scalable/places/deb
ian-swirl.svg » pour fournir « /usr/share/icons/gnome/scalable/places/start-here
.svg » (start-here.svg) en mode automatique
Paramétrage de libclamav12:amd64 (1.4.3+dfsg-1) ...
Paramétrage de libtypes-serialiser-perl (1.01-1) ...
Paramétrage de libjson-perl (4.10000-1) ...
Paramétrage de libtext-csv-perl (2.06-1) ...
Paramétrage de clamav-base (1.4.3+dfsg-1) ...
id: 'clamav' : utilisateur inexistant
Paramétrage de libjson-xs-perl (4.040-1~deb13u1) ...
Paramétrage de clamav-freshclam (1.4.3+dfsg-1) ...
Paramétrage de clamav (1.4.3+dfsg-1) ...
Paramétrage de clamtk (6.07-1.1) ...
Traitement des actions différées (« triggers ») pour desktop-file-utils (0.28-1)
...
Traitement des actions différées (« triggers ») pour gnome-menus (3.36.0-3) ...
Traitement des actions différées (« triggers ») pour libc-bin (2.41-12) ...
Traitement des actions différées (« triggers ») pour man-db (2.13.1-1) ...
Traitement des actions différées (« triggers ») pour mailcap (3.74) ...
root@DEB13Desktop:~#

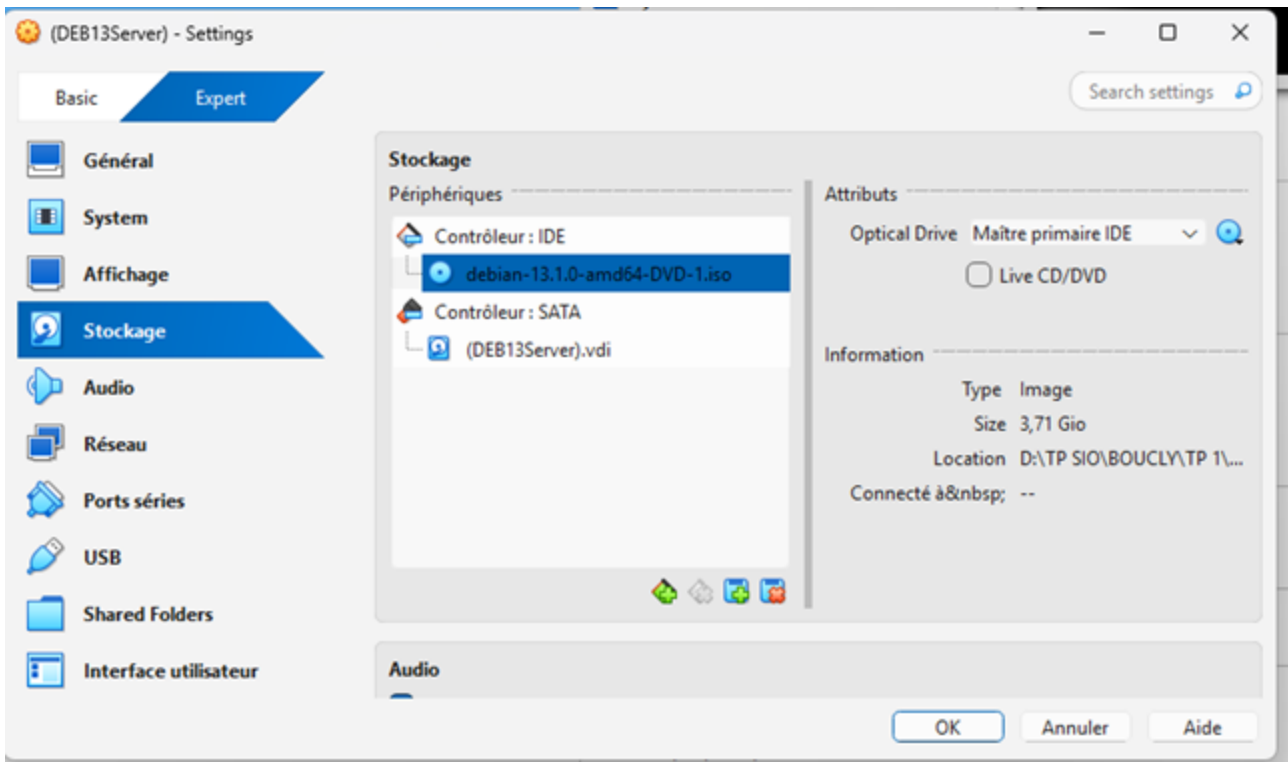
```





1.7.

Installation de l'OS sur la machine serveur



1.8. Mise à jour des paquets disponibles depuis les serveurs de dépôt

```
Debian GNU/Linux 13 DEB12Server tty1
DEB12Server login: root
Password:
Linux DEB12Server 6.12.48+deb13-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.12.48-1 (2025-09-20) x86_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
root@DEB12Server:~#
```

```
#deb cdrom:[Debian GNU/Linux 13.1.0 _Trixie_ - Official amd64 DVD Binary-1 with firmware 20250906-10:24]/ trixie contrib
deb http://deb.debian.org/debian/ trixie main non-free-firmware
deb-src http://deb.debian.org/debian/ trixie main non-free-firmware
deb http://security.debian.org/debian-security trixie-security main non-free-firmware
deb-src http://security.debian.org/debian-security trixie-security main non-free-firmware
# trixie-updates, to get updates before a point release is made;
# see https://www.debian.org/doc/manuals/debian-reference/ch02.en.html#updates_and_backports
deb http://deb.debian.org/debian/ trixie-updates main non-free-firmware
deb-src http://deb.debian.org/debian/ trixie-updates main non-free-firmware
```

```
root@DEB12Server:~# apt-get update
Atteint : 1 http://security.debian.org/debian-security trixie-security InRelease
Atteint : 2 http://deb.debian.org/debian trixie InRelease
Réception de : 3 http://deb.debian.org/debian trixie-updates InRelease [47,3 kB]
47,3 ko réceptionnés en 1s (88,4 ko/s)
Lecture des listes de paquets... Fait
root@DEB12Server:~#
```

1.9. Installation des Additions invité

```

root@DEB12Server:~# mount -t iso9660 /dev/cdrom /mnt
mount: /mnt: ATTENTION: source protégée en écriture, montée en lecture seule.
root@DEB12Server:~# cd /mnt
root@DEB12Server:/mnt# ls -l
total 41939
-r--r--r-- 1 root root    1049 11 août  20:04 AUTORUN.INF
-r-xr-xr-x 1 root root    7114 10 sept. 18:44 autorun.sh
dr-xr-xr-x 2 root root    1468 10 sept. 19:10 cert
dr-xr-xr-x 2 root root    1252 10 sept. 19:10 NT3x
dr-xr-xr-x 2 root root    2828 10 sept. 19:10 OS2
-r-xr-xr-x 1 root root    5097 10 sept. 18:44 runasroot.sh
-r--r--r-- 1 root root     718 10 sept. 19:10 TRANS.TBL
-r--r--r-- 1 root root 2203483 10 sept. 18:57 VBoxDarwinAdditions.pkg
-r-xr-xr-x 1 root root    4225 10 sept. 18:57 VBoxDarwinAdditionsUninstall.tool
-r-xr-xr-x 1 root root 2908188 10 sept. 18:48 VBoxLinuxAdditions-arm64.run
-r-xr-xr-x 1 root root 6656007 10 sept. 18:45 VBoxLinuxAdditions.run
-r--r--r-- 1 root root 9558528 10 sept. 18:46 VBoxSolarisAdditions.pkg
-r-xr-xr-x 1 root root 8709416 10 sept. 19:09 VBoxWindowsAdditions-amd64.exe
-r-xr-xr-x 1 root root 5050640 10 sept. 19:08 VBoxWindowsAdditions-arm64.exe
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-r-xr-xr-x 1 root root 6757304 10 sept. 19:08 VBoxWindowsAdditions-x86.exe
-r--r--r-- 1 root root     261 10 mars  2023 windows11-bypass.reg
root@DEB12Server:/mnt#

```

```

root@DEB12Server:/mnt# sh VBoxLinuxAdditions.run
Verifying archive integrity... 100% MD5 checksums are OK. All good.
Uncompressing VirtualBox 7.2.2 Guest Additions for Linux 100%
VirtualBox Guest Additions installer
VirtualBox Guest Additions: Starting.
VirtualBox Guest Additions: Setting up modules
VirtualBox Guest Additions: Building the VirtualBox Guest Additions kernel
modules. This may take a while.
VirtualBox Guest Additions: To build modules for other installed kernels, run
VirtualBox Guest Additions: /sbin/rcvboxadd quicksetup <version>
VirtualBox Guest Additions: or
VirtualBox Guest Additions: /sbin/rcvboxadd quicksetup all
VirtualBox Guest Additions: Kernel headers not found for target kernel
6.12.48+deb13-amd64. Please install them and execute
/sbin/rcvboxadd setup
VirtualBox Guest Additions: Running kernel modules will not be replaced until
the system is restarted or 'rcvboxadd reload' triggered
VirtualBox Guest Additions: reloading kernel modules and services
VirtualBox Guest Additions: kernel modules were not reloaded
VirtualBox Guest Additions: kernel modules and services were not reloaded
The log file /var/log/vboxadd-setup.log may contain further information.
root@DEB12Server:/mnt#

```

1.10. Modification de la variable d'environnement PS1

```

Debian GNU/Linux 13 DEB12Server tty1

DEB12Server login: root
Password:
Linux DEB12Server 6.12.48+deb13-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.12.48-1 (2025-09-20) x86_64

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the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
root@DEB12Server:~# ls -la
total 28
drwx----- 4 root root 4096 16 oct. 2025 .
drwxr-xr-x 18 root root 4096 16 oct. 16:34 ..
-rw----- 1 root root 212 16 oct. 2025 .bash_history
-rw-r--r-- 1 root root 607 24 août 18:20 .bashrc
drwxr-xr-x 3 root root 4096 16 oct. 16:59 .local
-rw-r--r-- 1 root root 132 24 août 18:20 .profile
drwx----- 2 root root 4096 16 oct. 16:32 .ssh
root@DEB12Server:~# _

```

```

# ~/.bashrc: executed by bash(1) for non-login shells.

# Note: PS1 is set in /etc/profile, and the default umask is defined
# in /etc/login.defs. You should not need this unless you want different
# defaults for root.
# PS1='${debian_chroot:+($debian_chroot)}\h:\w\$ '
# umask 022

# You may uncomment the following lines if you want `ls' to be colorized:
# export LS_OPTIONS='--color=auto'
# eval "$(dircolors)"
# alias ls='ls $LS_OPTIONS'
# alias ll='ls $LS_OPTIONS -l'
# alias l='ls $LS_OPTIONS -lA'
#
# Some more alias to avoid making mistakes:
# alias rm='rm -i'
# alias cp='cp -i'
# alias mv='mv -i'

```

```
# ~/.bashrc: executed by bash(1) for non-login shells.

# Note: PS1 is set in /etc/profile, and the default umask is defined
# in /etc/login.defs. You should not need this unless you want different
# defaults for root.
# PS1='${debian_chroot:+($debian_chroot)}\h:\w\$ '
# umask 022

# You may uncomment the following lines if you want `ls' to be colorized:
# export LS_OPTIONS='--color=auto'
# eval "$(dircolors)"
# alias ls='ls $LS_OPTIONS'
# alias ll='ls $LS_OPTIONS -l'
# alias l='ls $LS_OPTIONS -lA'
#
# Some more alias to avoid making mistakes:
# alias rm='rm -i'
# alias cp='cp -i'
# alias mv='mv -i'
PS1='\[\033[01;32m\]\u@\h\[\033[00m\]:\[\033[01;34m\] \w\$ \[\033[00m\] '_
```

```
Debian GNU/Linux 13 DEB12Server tty1

DEB12Server login: root
Password:
Linux DEB12Server 6.12.48+deb13-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.12.48-1 (2025-09-20) x86_64

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individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
root@DEB12Server: ~#
```

```
Debian GNU/Linux 13 DEB12Server tty1

DEB12Server login: root
Password:
Linux DEB12Server 6.12.48+deb13-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.12.48-1 (2025-09-20) x86_64

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the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
root@DEB12Server: ~# echo ${PS1}
\[\033[01;32m\]\u@\h\[\033[00m\]:\[\033[01;34m\] \w\$ \[\033[00m\]
root@DEB12Server: ~#_
```